

## SEQUENCE LISTING

<110> Jegla, Timothy James  
ICAGEN Incorporated

<120> Kv6.2, a Voltage-Gated Potassium Channel Subunit

<130> 018512-001410US

<140> US 09/719,919

<141> 2001-02-22

<150> US 60/091,466

<151> 1998-07-01

<150> WO PCT/US99/14945

<151> 1999-06-30

<160> 18

<170> PatentIn Ver. 2.0

<210> 1

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<212> PRT

<213> Mus sp.

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<223> mouse alpha subunit of heteromeric voltage-gated  
potassium channel Kv6.2

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Phe Gly Ser Cys Ser Pro Leu Ser Gln Leu Trp Pro Gly Pro Glu Pro  
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35 40 45

Gln Asp Ala Ser Pro Glu Ala Asn Leu Lys Glu Ile Leu Val Asn Val  
50 55 60

Gly Gly Gln Arg Tyr Leu Leu Pro Trp Ser Thr Leu Asp Ala Phe Pro  
65 70 75 80

Leu Ser Arg Leu Ser Arg Leu Arg Leu Cys Arg Ser His Glu Glu Ile  
85 90 95

Thr Gln Leu Cys Asp Asp Tyr Asp Glu Asp Ser Gln Glu Phe Phe Phe  
100 105 110

Asp Arg Asn Pro Ser Ala Phe Gly Val Ile Val Ser Phe Leu Ala Ala  
115 120 125

Gly Lys Leu Val Leu Leu Arg Glu Met Cys Ala Leu Ser Phe Arg Glu  
130 135 140

Glu Leu Ser Tyr Trp Gly Ile Glu Glu Thr Asn Leu Glu Arg Cys Cys  
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Leu Arg Lys Leu Leu Lys Lys Leu Glu Glu Ala Ala Glu Leu Arg Arg  
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 Glu Glu Ala Ala Gln Arg Gln Gln Gln Arg Gln Ala Cys His Ser Glu  
 180 185 190  
 Val Gln Ala Ser Arg Trp Ala Arg Ser Met Asn Gln Leu Arg Glu Met  
 195 200 205  
 Val Glu Asp Pro Gln Ser Gly Leu Pro Gly Lys Val Phe Ala Cys Leu  
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 Ser Val Leu Phe Val Ala Thr Thr Ala Val Ser Leu Cys Val Ser Thr  
 225 230 235 240  
 Met Pro Asp Phe Arg Ala Glu Glu Gly Lys Gly Glu Cys Thr Arg Lys  
 245 250 255  
 Cys Tyr Tyr Ile Phe Val Val Glu Ser Ile Cys Val Ala Trp Phe Ser  
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 Phe Arg Gly Pro Leu Asn Val Ile Asp Ile Leu Ala Ile Ser Pro Tyr  
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 Tyr Val Ser Leu Ala Val Ser Asp Glu Ser Pro Glu Ala Gly Glu Arg  
 305 310 315 320  
 Pro Ser Ser Ser Ser Tyr Leu Glu Lys Val Gly Leu Val Leu Arg Val  
 325 330 335  
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 340 345 350  
 Leu Gly Leu Gln Thr Leu Gly Leu Thr Val Arg Arg Cys Ala Arg Glu  
 355 360 365  
 Phe Gly Leu Leu Met Leu Phe Leu Ala Val Ala Val Thr Leu Phe Ser  
 370 375 380  
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 405 410 415  
 Val Gly Tyr Gly Asp Met Val Pro Arg Ser Val Pro Gly Gln Met Val  
 420 425 430  
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 <223> mouse alpha subunit of heteromeric voltage-gated  
           potassium channel Kv6.2

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<220>  
 <223> Description of Artificial Sequence:mouse  
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<210> 4  
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<220>  
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<210> 5  
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<210> 6  
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<210> 7  
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<210> 8  
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<220>  
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 Ala Leu Asp Ala Ser Pro Val Asp Leu Lys Lys Glu Ile Leu Ile Asn  
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 Val Gly Gly Arg Arg Tyr Leu Leu Pro Trp Ser Thr Leu Asp Arg Phe  
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Thr	Gly	Pro	Ala	Ser	Glu	Cys	Glu	Leu	Leu	Asp	Pro	His	Val	Ala	Ser		
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